

### OAQ CONTROL EQUIPMENT APPLICATION CE-01: Control Equipment Summary

State Form 51904 (R2 / 3-06)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, Indianapolis, IN 46204

Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of CE-01 is to summarize all of the equipment used to control emissions. This is a required form.
- Detailed instructions for this form are available online at <a href="https://www.IN.gov/idem/air/permits/apps/instructions/ce01instructions.html">www.IN.gov/idem/air/permits/apps/instructions/ce01instructions.html</a>.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

#### **Summary of Control Equipment**

This table summarizes all of the equipment used to control air pollutant emissions. The identification numbers listed on this form should correspond to the emissions unit identified on the <u>Plant Layout diagram</u> and <u>Process Flow diagram</u>.

Control     Equipment ID	2. Control Equipment Description	3. Pollutant Controlled	4. Emission Unit ID	5. Stack / Vent ID	6. Applicable Rule
H-201 SCR	Selective Catalytic Reduction Unit	NOx	800	800-01	N/A
H-202 SCR	Selective Catalytic Reduction Unit	NOx	800	800-02	N/A
H-203 SCR	Selective Catalytic Reduction Unit	NOx	800	800-03	N/A
HU-1 SCR	Selective Catalytic Reduction Unit	NOx	801	801-01	N/A
HU-2 SCR	Selective Catalytic Reduction Unit	NOx	801	801-02	N/A
Cooling Tower 7-DE	Drift Eliminator	TSP/PM10/ PM2.5	Cooling Tower 7	803-07	N/A
Cooling Tower 8-DE	Drift Eliminator	TSP/PM10/ PM2.5	Cooling Tower 8	803-08	N/A
HU Cooling Tower-DE	Drift Eliminator	TSP/PM10/ PM2.5	HU Cooling Tower	803-09	N/A
Cooling Tower 2-DE	Drift Eliminator	TSP/PM10/ PM2.5	Cooling Tower 2	803-02	N/A
Cooling Tower 3-DE	Drift Eliminator	TSP/PM10/ PM2.5	Cooling Tower 3	803-03	N/A
Cooling Tower 4-DE	Drift Eliminator	TSP/PM10/ PM2.5	Cooling Tower 4	803-04	N/A
Marine Dock VRU	Vapor Recovery Unit	VOC	Marine Dock Loading	N/A	N/A
TK-SH-1	Caustic Scrubber	H <sub>2</sub> S, TRS	162	162-09	N/A
TK-SH-2	Caustic Scrubber	H <sub>2</sub> S, TRS	162	162-10	N/A



State Form 52626 (3-06)

Part A identifies the control device and describes its physical properties.

Nitrogen Oxides (NO<sub>X</sub>)

Other Pollutant (specify):

a. b. INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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NOTES:

- The purpose of CE-09 is to identify all the parameters that describe the nitrogen oxides (NO<sub>X</sub>) reduction technology. This is a required form.
- Complete this form once for each NO<sub>x</sub> reduction technology (or once for each set of identical NO<sub>x</sub> reduction technologies).

PART A: Identification and Description of Control Equipment

- Detailed instructions for this form are available online at <a href="https://www.in.gov/idem/air/permits/apps/instructions/ce09instructions.html">www.in.gov/idem/air/permits/apps/instructions/ce09instructions.html</a>.
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  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
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  any one to inspect and photocopy.

1.	Control Equipment ID:	H-201 SC	:R					
2.	Installation Date:							
3.	Device Used:		ive Catalytic Reductio	` ,		on-Catalytic R	eduction (SNCR)	
4.	Reducing Agent:		nia (specify type):		Urea [	Other (speci	fy):	
5.	Number of Catalyst Lay	ers:						
6.	Residence Time (specify u	ınits) <b>:</b>						
7.	Estimated Catalyst Life	(months):	months					
	PART B: Operational Parameters  Part B provides the operational parameters of the control device and the pollutant laden gas stream. Appropriate units must be included if the standard units are not used.  A. Units B. Inlet C. Outlet D. Differential							
8.	Contaminant Concentra	ition		ppmv				
9.	Gas Stream Flow Rate			ACFM				
10	. Gas Stream Temperatur	re		°F				
11	. Gas Stream Pressure			inches of water			to	
12	. Moisture Content			%				
13	. Particle Size Range			micrometers			to	
14	. Other (specify):							
De	ort C provides the pollutant		PART C: Pollutant					

15. Units

lb/MMBtu

16. Inlet

17. Outlet

0.02

Control

PART D: Monitoring, Record Keeping, & Testing Procedures								
Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included in the permit.								
19. Item(s) Monitored:								
20. Monitoring Frequency:								
21. Item(s) Recorded:								
22. Record Keeping Frequency:								
23. Pollutant(s) Tested:	NOx							
24. Test Method(s):	As Approved by IDEM							
25. Testing Frequency:	Once upon issuance of permit							

PART E: Preventive Maintenance Plan						
Part E verifies that a complete Preventive Maintenance Plan (PMP) has been prepared for the control device, if applicable. Use this table as a checklist to ensure that the PMP is complete.						
26. Do you have a Preventive Maintenance Plan (PMP)?						
☐ No PMP is needed.   ⊠ Yes – the following items are identified on the PMP:						
A. Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control devices.						
B. Description of the items or conditions that will be inspected.						
C. Schedule for inspection of items or conditions described above.						
D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.						



State Form 52626 (3-06)

Nitrogen Oxides (NO<sub>X</sub>)

Other Pollutant (specify):

a. b. INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Part A identifies the control device and describes its physical properties.

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NOTES:

- The purpose of CE-09 is to identify all the parameters that describe the nitrogen oxides (NO<sub>X</sub>) reduction technology. This is a required form.
- Complete this form once for each NO<sub>x</sub> reduction technology (or once for each set of identical NO<sub>x</sub> reduction technologies).

PART A: Identification and Description of Control Equipment

- Detailed instructions for this form are available online at <a href="https://www.in.gov/idem/air/permits/apps/instructions/ce09instructions.html">www.in.gov/idem/air/permits/apps/instructions/ce09instructions.html</a>.
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  any one to inspect and photocopy.

1.	Control Equipment ID:	H-202 SC	R					
2.	Installation Date:							
3.	Device Used:		ive Catalytic Reduction	,		on-Catalytic R	eduction (SNC	R)
4.	Reducing Agent:	⊠ Ammo	nia (specify type):		Urea [	Other (special	īy):	
5.	Number of Catalyst Lay	ers:						
6.	Residence Time (specify t	units):						
7.	Estimated Catalyst Life	(months):	months					
Pa	rt B provides the operation	al paramete	PART B: Operation of the control devices of the control devices.			gas stream. A	ppropriate uni	ite
	ist be included if the standa							
				A. Units	B. Inlet	C. Outlet	D. Differen	
		ard units ar		•				
mu	ist be included if the stand	ard units ar		A. Units				
8. 9.	est be included if the standard Contaminant Concentration	ard units an		A. Units				
8. 9.	Contaminant Concentra Gas Stream Flow Rate	ard units an		A. Units ppmv ACFM				
8. 9. 10.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur	ard units an		A. Units  ppmv  ACFM  °F  inches of			D. Differen	
8. 9. 10. 11.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure	ard units an		A. Units  ppmv  ACFM  °F  inches of water			D. Differen	
8. 9. 10. 11.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure Moisture Content	ard units an		A. Units  ppmv  ACFM  °F  inches of water  %			D. Differen	
8. 9. 10. 11.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure Moisture Content Particle Size Range	ard units an		A. Units  ppmv  ACFM  °F  inches of water  %  micrometers	B. Inlet		D. Differen	

15. Units

lb/MMBtu

16. Inlet

17. Outlet

0.02

Control

PART D: Monitoring, Record Keeping, & Testing Procedures								
Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included in the permit.								
19. Item(s) Monitored:								
20. Monitoring Frequency:								
21. Item(s) Recorded:								
22. Record Keeping Frequency:								
23. Pollutant(s) Tested:	NOx							
24. Test Method(s):	As Approved by IDEM							
25. Testing Frequency:	Once upon issuance of permit							

PART E: Preventive Maintenance Plan						
Part E verifies that a complete Preventive Maintenance Plan (PMP) has been prepared for the control device, if applicable. Use this table as a checklist to ensure that the PMP is complete.						
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☐ No PMP is needed.   ⊠ Yes – the following items are identified on the PMP:						
A. Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control devices.						
B. Description of the items or conditions that will be inspected.						
C. Schedule for inspection of items or conditions described above.						
D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.						



State Form 52626 (3-06)

Nitrogen Oxides (NO<sub>X</sub>)

Other Pollutant (specify):

a. b. INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Part A identifies the control device and describes its physical properties.

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NOTES:

- The purpose of CE-09 is to identify all the parameters that describe the nitrogen oxides (NO<sub>X</sub>) reduction technology. This is a required form.
- Complete this form once for each NO<sub>x</sub> reduction technology (or once for each set of identical NO<sub>x</sub> reduction technologies).

PART A: Identification and Description of Control Equipment

- Detailed instructions for this form are available online at <a href="https://www.in.gov/idem/air/permits/apps/instructions/ce09instructions.html">www.in.gov/idem/air/permits/apps/instructions/ce09instructions.html</a>.
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1.	Control Equipment ID:	H-203 SCR					
2.	Installation Date:						
3.	Device Used:	⊠ Selective Catalytic Reductio             □ Non-Selective Catalytic Red             □	, , _		on-Catalytic R · (specify):	Reduction (SNCR)	
4.	Reducing Agent:	Ammonia (specify type):		Urea [	Other (speci	ify):	
5.	Number of Catalyst Lay						
6.	Residence Time (specify t	units):					
7.	Estimated Catalyst Life	(months): months					
	•	,					
Part B provides the operational parameters of the control device and the pollutant laden gas stream. Appropriate units must be included if the standard units are not used.  A. Units B. Inlet C. Outlet D. Differential							
mu	ist be included if the standa	ard units are not used.	A. Units	B. Inlet	C. Outlet	D. Differential	
8.	Contaminant Concentra		A. Units	B. Inlet	C. Outlet	D. Differential	
				B. Inlet	C. Outlet	D. Differential	
8. 9.	Contaminant Concentra Gas Stream Flow Rate	ation	ppmv	B. Inlet	C. Outlet	D. Differential	
8. 9.	Contaminant Concentra	ation	ppmv ACFM	B. Inlet	C. Outlet	D. Differential	
8. 9. 10.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur	ation	ppmv ACFM °F inches of	B. Inlet	C. Outlet		
8. 9. 10. 11.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure	ation	ppmv ACFM °F inches of water	B. Inlet	C. Outlet		
8. 9. 10. 11. 12.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure Moisture Content	ation	ppmv ACFM °F inches of water %	B. Inlet	C. Outlet	to	
8. 9. 10. 11. 12.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure Moisture Content Particle Size Range	ation	ppmv  ACFM  °F  inches of water  %  micrometers		C. Outlet	to	

15. Units

lb/MMBtu

16. Inlet

17. Outlet

0.02

Control

PART D: Monitoring, Record Keeping, & Testing Procedures								
Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included in the permit.								
19. Item(s) Monitored:								
20. Monitoring Frequency:								
21. Item(s) Recorded:								
22. Record Keeping Frequency:								
23. Pollutant(s) Tested:	NOx							
24. Test Method(s):	As Approved by IDEM							
25. Testing Frequency:	Once upon issuance of permit							

PART E: Preventive Maintenance Plan						
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C. Schedule for inspection of items or conditions described above.						
D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.						



State Form 52626 (3-06)

Part A identifies the control device and describes its physical properties.

Nitrogen Oxides (NO<sub>X</sub>)

Other Pollutant (specify):

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NOTES:

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- Complete this form once for each NO<sub>x</sub> reduction technology (or once for each set of identical NO<sub>x</sub> reduction technologies).

PART A: Identification and Description of Control Equipment

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1.	Control Equipment ID:	HU-1 SCR					
2.	Installation Date:						
3.	Device Used:		Catalytic Reduction	, , _		on-Catalytic R	eduction (SNCR)
4.	Reducing Agent:		(specify type):		Urea [	Other (speci	fy):
5.	Number of Catalyst Lay	ers:					
6.	Residence Time (specify t	units):					
7.	Estimated Catalyst Life	(months):	months				
		ĺ					
Pa	PART B: Operational Parameters  Part B provides the operational parameters of the control device and the pollutant laden gas stream. Appropriate units must be included if the standard units are not used.  A. Units B. Inlet C. Outlet D. Differential						
	ust be included if the standa	ard units are no	ot used.	•	B. Inlet	C. Outlet	
	ust be included if the standard Contaminant Concentration		ot used.	•	B. Inlet	C. Outlet	
mι			ot used.	A. Units	B. Inlet	C. Outlet	
8. 9.	Contaminant Concentra	ation	ot used.	A. Units	B. Inlet	C. Outlet	
8. 9.	Contaminant Concentra Gas Stream Flow Rate	ation	ot used.	A. Units ppmv ACFM	B. Inlet	C. Outlet	
8. 9. 10	Contaminant Concentra Gas Stream Flow Rate . Gas Stream Temperatur	ation	ot used.	A. Units  ppmv  ACFM  °F  inches of	B. Inlet	C. Outlet	D. Differential
8. 9. 10 11	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperature Gas Stream Pressure	ation	ot used.	A. Units  ppmv  ACFM  °F  inches of water	B. Inlet	C. Outlet	D. Differential
8. 9. 10. 11. 12.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperature Gas Stream Pressure Moisture Content	ation	ot used.	A. Units  ppmv  ACFM  °F  inches of water  %	B. Inlet	C. Outlet	D. Differential
8. 9. 10. 11. 12.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure Moisture Content Particle Size Range	ation	ot used.	A. Units  ppmv  ACFM  °F  inches of water  %  micrometers		C. Outlet	D. Differential

15. Units

lb/MMBtu

16. Inlet

17. Outlet

0.013

Control

PART D: Monitoring, Record Keeping, & Testing Procedures								
Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included in the permit.								
19. Item(s) Monitored:								
20. Monitoring Frequency:								
21. Item(s) Recorded:								
22. Record Keeping Frequency:								
23. Pollutant(s) Tested:	NOx							
24. Test Method(s):	As Approved by IDEM							
25. Testing Frequency:	Once upon issuance of permit							

PART E: Preventive Maintenance Plan
Part E verifies that a complete Preventive Maintenance Plan (PMP) has been prepared for the control device, if applicable. Use this table as a checklist to ensure that the PMP is complete.
26. Do you have a Preventive Maintenance Plan (PMP)?
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C. Schedule for inspection of items or conditions described above.
D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.



State Form 52626 (3-06)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Part A identifies the control device and describes its physical properties.

Nitrogen Oxides (NO<sub>X</sub>)

Other Pollutant (specify):

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- Complete this form once for each NO<sub>x</sub> reduction technology (or once for each set of identical NO<sub>x</sub> reduction technologies).

PART A: Identification and Description of Control Equipment

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1.	Control Equipment ID:	HU-2 SCR						
2.	Installation Date:							
3.	Device Used:	<ul><li>☑ Selective Catalytic Reduction</li><li>☑ Non-Selective Catalytic Reduction</li></ul>	` ' —		on-Catalytic R	eduction (SNCR)		
4.	Reducing Agent:	Ammonia (specify type):		Urea [	Other (speci	fy):		
5.	Number of Catalyst Lay	ers:						
6.	Residence Time (specify t	units):						
7.	Estimated Catalyst Life	(months): months						
	•							
Pa	PART B: Operational Parameters  Part B provides the operational parameters of the control device and the pollutant laden gas stream. Appropriate units must be included if the standard units are not used.  A. Units B. Inlet C. Outlet D. Differential							
		ard units are not used.	A. Units	B. Inlet	C. Outlet	D. Differential		
			•					
mu	st be included if the standa  Contaminant Concentra		A. Units					
8. 9.	st be included if the standard Contaminant Concentration	ation	A. Units					
8. 9.	Contaminant Concentra Gas Stream Flow Rate	ation	A. Units ppmv ACFM					
8. 9. 10.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur	ation	A. Units  ppmv  ACFM  °F  inches of			D. Differential		
8. 9. 10. 11.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure	ation	A. Units  ppmv  ACFM  °F  inches of water			D. Differential		
8. 9. 10. 11.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure Moisture Content	ation	A. Units  ppmv  ACFM  °F  inches of water  %			D. Differential		
8. 9. 10. 11.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure Moisture Content Particle Size Range	ation	A. Units  ppmv  ACFM  °F  inches of water  %			D. Differential		
8. 9. 10. 11.	Contaminant Concentra Gas Stream Flow Rate Gas Stream Temperatur Gas Stream Pressure Moisture Content Particle Size Range	ation	A. Units  ppmv  ACFM  °F  inches of water  %  micrometers	B. Inlet		D. Differential		

15. Units

lb/MMBtu

16. Inlet

17. Outlet

0.013

Control

PART D: Monitoring, Record Keeping, & Testing Procedures							
Part D identifies any existing or prop in the permit.	osed monitoring, reco	ord keeping, & testing p	procedures that may n	eed to be included			
19. Item(s) Monitored:							
20. Monitoring Frequency:							
21. Item(s) Recorded:							
22. Record Keeping Frequency:							
23. Pollutant(s) Tested:	NOx						
24. Test Method(s):	As Approved by IDEM						
25. Testing Frequency:	Once upon issuance of permit						

PART E: Preventive Maintenance Plan
Part E verifies that a complete Preventive Maintenance Plan (PMP) has been prepared for the control device, if applicable. Use this table as a checklist to ensure that the PMP is complete.
26. Do you have a Preventive Maintenance Plan (PMP)?
☐ No PMP is needed.   ⊠ Yes – the following items are identified on the PMP:
A. Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control devices.
B. Description of the items or conditions that will be inspected.
C. Schedule for inspection of items or conditions described above.
D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.



# OAQ CONTROL EQUIPMENT APPLICATION CE-10: Miscellaneous Control Equipment

State Form 52436 (R / 3-06)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of CE-10 is to identify all the parameters that describe the control device.
- Complete this form once for each control device not covered by CE-02 through CE-09.
- Detailed instructions for this form are available online at <a href="https://www.in.gov/idem/air/permits/apps/instructions/ce10instructions.html">www.in.gov/idem/air/permits/apps/instructions/ce10instructions.html</a>.
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  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

		PART A: Io	dentification	n and Desc	ription of Co	ntrol	Equip	men			
Pai	t A id	dentifies the control device and									
1.	Cor	ntrol Equipment ID:	Marine Do	ck VRU							
2.	Inst	allation Date:	TBD								
3.	Des	cription of Control Device:	Vapor Red	covery Unit							
			PART E	3: Operatio	nal Paramete	ers					
		rovides the operational parame			e and the poll	lutant	laden	gas s	stream. /	Approp	oriate units
mu	st be	included if the standard units a	re not used.			1		1			
					A. Units	B.	Inlet	C.	Outlet	D.	Differential
4.	Gas	Stream Flow Rate			ACFM						
5.	Gas	Stream Temperature			°F						
6.	Gas	Stream Pressure			inches of water						to
7.	Moi	sture Content			%						
8.	Par	ticle Size Range			micrometers						to
9.	Oth	er (specify):									
			PART C	: Pollutant	Concentration	ons					
Pai	t C p	provides the pollutant concentrate									
Pai	t C p	provides the pollutant concentration				n.	12. Out	let	13. E	fficien	cy (%):
Pai	t C p	provides the pollutant concentration		pollutant lac	len gas strear	n.	12. Out	tlet		fficiene oture	cy (%):
Pai	t C p	Carbon Monoxide (CO)		pollutant lac	len gas strear	n.	12. Out	tlet			
Pai				pollutant lac	len gas strear	n.	12. Out	ilet			
Pai	a.	Carbon Monoxide (CO)	tions of the	pollutant lac	len gas strear	n.	12. Out	ilet			
Pai	a. b.	Carbon Monoxide (CO) Lead (Pb)	tions of the	nollutant lace  10. Units  N/A  N/A	len gas strear	n.	12. Out	ilet			
Pai	a. b.	Carbon Monoxide (CO) Lead (Pb) Hazardous Air Pollutant (HAP)	tions of the	nollutant lac 10. Units  N/A  N/A  N/A  N/A	len gas strear	n.	12. Out	ilet			
Pai	a. b. c. d.	Carbon Monoxide (CO) Lead (Pb) Hazardous Air Pollutant (HAP) Nitrogen Oxides (NO <sub>x</sub> )	tions of the	N/A N/A N/A N/A	len gas strear	n.	12. Out	tlet			
Par D	a. b. c. d. e.	Carbon Monoxide (CO)  Lead (Pb)  Hazardous Air Pollutant (HAP)  Nitrogen Oxides (NO <sub>X</sub> )  Mercury (Hg)	(specify):	N/A N/A N/A N/A N/A N/A N/A	len gas strear	n.	12. Out	tlet			
Paul Daniel Dani	a. b. c. d. e. f.	Carbon Monoxide (CO)  Lead (Pb)  Hazardous Air Pollutant (HAP)  Nitrogen Oxides (NO <sub>X</sub> )  Mercury (Hg)  Particulate Matter (PM)	) (specify):	N/A N/A N/A N/A N/A N/A N/A N/A N/A	len gas strear	n.	12. Out	ilet			
Pal	a. b. c. d. e. f.	Carbon Monoxide (CO)  Lead (Pb)  Hazardous Air Pollutant (HAP)  Nitrogen Oxides (NO <sub>X</sub> )  Mercury (Hg)  Particulate Matter (PM)  Particulate Matter less than 10μm	) (specify):	N/A	len gas strear	n.	12. Out	let			
Pai	a. b. c. d. e. f. g. h.	Carbon Monoxide (CO) Lead (Pb) Hazardous Air Pollutant (HAP) Nitrogen Oxides (NO <sub>X</sub> ) Mercury (Hg) Particulate Matter (PM) Particulate Matter less than 10µm Particulate Matter less than 2.5µm	) (specify):  n (PM <sub>10</sub> ) m (PM <sub>2.5</sub> )	N/A	len gas strear	n.	<b>12. Out</b>				

PART	D: Monitoring, Record Keeping,	& Testing Proced	ures	_
Part D identifies any existing or prop in the permit.				ed to be included
14. Item(s) Monitored:	N/A			
15. Monitoring Frequency:	N/A			
16. Item(s) Recorded:	N/A			
17. Record Keeping Frequency:	N/A			
18. Pollutant(s) Tested:	N/A			
19. Test Method(s):	N/A			
20. Testing Frequency:	N/A			
Part E verifies that a complete Preve	PART E: Preventive Mainter entive Maintenance Plan (PMP) ha		or the control de	evice. if
applicable. Use this table as a chec				5V100, 11
21. Do you have a Preventive Mai	ntenance Plan (PMP)?			
☐ No PMP is needed.	Yes – the following items are ident	tified on the PMP:		
A. Identification of the indiv	vidual(s) responsible for inspecting, mainta	ining and repairing emi	ssion control device	es.
B. Description of the items	or conditions that will be inspected.			
C. Schedule for inspection	of items or conditions described above.			
	ification of the replacement parts that will b	ne maintained in invento	ry for quick replace	ement
Di raominoatori ana quant	noation of the replacement parts that will be	o mamamoa m mvome	Ty Tot quion Topiaoc	, mont.
	PART F: Determination of Inte			_
Part F provides explanation to determ	nine whether the control device st	nould be considere	d integral to the	e process.
22. Has IDEM already made an int If "Yes", provide the following:	egral control determination for	this device?	⊠ No	Yes
Permit Number:	Issuance Date:	Determination:	☐ Integral	□ Not Integral
23. Is this device integral to the put if "Yes", provide the reason(s) w		⊠ No □	Yes	



# OAQ CONTROL EQUIPMENT APPLICATION CE-10: Miscellaneous Control Equipment

State Form 52436 (R / 3-06)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, Indianapolis, IN 46204

Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of CE-10 is to identify all the parameters that describe the control device.
- Complete this form once for each control device not covered by CE-02 through CE-09.
- Detailed instructions for this form are available online at <a href="https://www.in.gov/idem/air/permits/apps/instructions/ce10instructions.html">www.in.gov/idem/air/permits/apps/instructions/ce10instructions.html</a>.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

PART A: Id	entification and Desc	ription of Cor	ntrol Equip	ment			
Part A identifies the control device and of	describes its physical p	roperties.					
1. Control Equipment ID:	TK SH-1 (162)						
2. Installation Date:	TBD						
3. Description of Control Device:	Caustic Scrubber						
Part B provides the operational paramet must be included if the standard units ar				gas stream.	Approp	riate units	
		A. Units	B. Inlet	C. Outlet	D.	Differential	
4. Gas Stream Flow Rate		ACFM					
5. Gas Stream Temperature		°F					
6. Gas Stream Pressure		inches of water				to	
7. Moisture Content		%					
8. Particle Size Range		micrometers				to	
9. Other (specify):							
PART C: Pollutant Concentrations							
Don't Course idea the coell, tout accompany							
Part C provides the pollutant concentrat	ions of the pollutant la	den gas stream					
Part C provides the pollutant concentrat					Efficienc		
	ions of the pollutant lac	den gas stream	٦.		Efficienc apture	cy (%): Control	
a. Carbon Monoxide (CO)	10. Units  N/A	den gas stream	٦.				
a. Carbon Monoxide (CO) b. Lead (Pb)	10. Units  N/A  N/A	den gas stream	٦.				
a. Carbon Monoxide (CO) b. Lead (Pb)	10. Units  N/A  N/A	den gas stream	٦.				
a. Carbon Monoxide (CO) b. Lead (Pb) c. Hazardous Air Pollutant (HAP)	10. Units  N/A  N/A  (specify): N/A	den gas stream	٦.				
a. Carbon Monoxide (CO)  b. Lead (Pb)  c. Hazardous Air Pollutant (HAP)  d. Nitrogen Oxides (NO <sub>x</sub> )	10. Units  N/A  N/A  (specify): N/A  N/A	den gas stream	٦.				
a. Carbon Monoxide (CO)  b. Lead (Pb)  c. Hazardous Air Pollutant (HAP)  d. Nitrogen Oxides (NO <sub>x</sub> )  e. Mercury (Hg)	10. Units  N/A  N/A  (specify): N/A  N/A  N/A  N/A  N/A  N/A	den gas stream	٦.				
a. Carbon Monoxide (CO)  b. Lead (Pb)  c. Hazardous Air Pollutant (HAP)  d. Nitrogen Oxides (NO <sub>x</sub> )  e. Mercury (Hg)  f. Particulate Matter (PM)	Ions of the pollutant lactorions of the pollutant lactorio	den gas stream	٦.				
a. Carbon Monoxide (CO)  b. Lead (Pb)  c. Hazardous Air Pollutant (HAP)  d. Nitrogen Oxides (NO <sub>X</sub> )  e. Mercury (Hg)  f. Particulate Matter (PM)  g. Particulate Matter less than 10μm	Ions of the pollutant lactorions of the pollutant lactorio	den gas stream	٦.				
a. Carbon Monoxide (CO)  b. Lead (Pb)  c. Hazardous Air Pollutant (HAP)  d. Nitrogen Oxides (NO <sub>X</sub> )  e. Mercury (Hg)  f. Particulate Matter (PM)  g. Particulate Matter less than 10μm  h. Particulate Matter less than 2.5μm	In the pollutant lactor of the	den gas stream	٦.				

<sup>\*</sup>Note Tanks TK-SH-1 and TK-SH-2 have a combined limit of 0.5 ton/yr for both H₂S and Total Reduced Sulfur (See Appendix C Tables C.63.)

PART [	D: Monitoring, Record Keeping, 8	R Testing Procedu	res	_
Part D identifies any existing or prop in the permit.				ed to be included
14. Item(s) Monitored:	N/A			
15. Monitoring Frequency:	N/A			
16. Item(s) Recorded:	N/A			
17. Record Keeping Frequency:	N/A			
18. Pollutant(s) Tested:	N/A			
19. Test Method(s):	N/A			
20. Testing Frequency:	N/A			
Part E verifies that a complete Preve	PART E: Preventive Mainten entive Maintenance Plan (PMP) has		the control de	evice. if
applicable. Use this table as a chec				
21. Do you have a Preventive Mai	ntenance Plan (PMP)?			
☐ No PMP is needed.	Yes – the following items are identi	fied on the PMP:		
A. Identification of the indi	vidual(s) responsible for inspecting, maintain	ning and repairing emiss	sion control device	es.
B. Description of the items	or conditions that will be inspected.			
C. Schedule for inspection	of items or conditions described above.			
	fication of the replacement parts that will be	e maintained in inventor	/ for quick replace	ment.
Don't Foresides evaluation to determ	PART F: Determination of Inte		into aval to the	_
Part F provides explanation to determ			integral to the	process.
22. Has IDEM already made an int  If "Yes", provide the following:	egral control determination for t	his device?	⊠ No	Yes
Permit Number:	Issuance Date:	Determination:	☐ Integral	□ Not Integral
23. Is this device integral to the pull "Yes", provide the reason(s) w		⊠ No □ Y	'es	



# OAQ CONTROL EQUIPMENT APPLICATION CE-10: Miscellaneous Control Equipment

State Form 52436 (R / 3-06)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM - Office of Air Quality - Permits Branch** 100 N. Senate Avenue, Indianapolis, IN 46204

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NOTES:

- The purpose of CE-10 is to identify all the parameters that describe the control device.
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- Detailed instructions for this form are available online at <a href="https://www.in.gov/idem/air/permits/apps/instructions/ce10instructions.html">www.in.gov/idem/air/permits/apps/instructions/ce10instructions.html</a>.
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  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

		PART A: Ide	ntification and D	escripti	on of Co	ontrol	Equip	men	ì		
Pai	t A ic	dentifies the control device and de	escribes its physic	al prope	rties.						
1.	Con	ntrol Equipment ID:	ΓK SH-2 (162)								
2.	Inst	allation Date:	ГВD								
3.	Des	cription of Control Device:	Caustic Scrubber								
			PART B: Opera							•	
		rovides the operational paramete included if the standard units are		evice an	d the poi	llutan	laden	gas s	stream.	Approp	oriate units
				A.	Units	В.	Inlet	C.	Outlet	D.	Differential
4.	Gas	Stream Flow Rate		P	ACFM						
5.	Gas	Stream Temperature			°F						
6.		Stream Pressure			ches of water						to
7.	Moi	sture Content			%						
8.	Part	ticle Size Range		mic	rometers						to
9.	Oth	er (specify):									
	9. Other (specify):  PART C: Pollutant Concentrations										
Pai	t C p	provides the pollutant concentration									
Pai	t C p	provides the pollutant concentration		laden g		m.	12. Out	tlet		fficien	
Pai			ns of the pollutan	laden g	jas streai	m.	12. Out	tlet		fficien pture	cy (%):
Pai	a.	Carbon Monoxide (CO)	ns of the pollutan  10. Uni	laden g	jas streai	m.	12. Out	tlet			
Pai		Carbon Monoxide (CO) Lead (Pb)	10. Uni	t laden g	jas streai	m.	12. Out	tlet			
Pai	a.	Carbon Monoxide (CO) Lead (Pb) Hazardous Air Pollutant (HAP) (3)	10. Uni  N/A  Specify): N/A	t laden g	jas streai	m.	12. Out	tlet			
Pai	a. b.	Carbon Monoxide (CO) Lead (Pb)	10. Uni  N/A  N/A  specify): N/A	t laden g	jas streai	m.	12. Out	tlet			
Pai	a. b. c.	Carbon Monoxide (CO) Lead (Pb) Hazardous Air Pollutant (HAP) (3)	10. Uni  N/A  Specify): N/A	t laden g	jas streai	m.	12. Out	tlet			
Pai	a. b. c.	Carbon Monoxide (CO) Lead (Pb) Hazardous Air Pollutant (HAP) (Statement of the Nitrogen Oxides (NO <sub>X</sub> )	10. Uni  N/A  N/A  specify): N/A	t laden g	jas streai	m.	12. Out	tlet			
Pal	a. b. c. d.	Carbon Monoxide (CO)  Lead (Pb)  Hazardous Air Pollutant (HAP) (STATE OF THE PROPERTY OF T	10. Uni N/A N/A specify): N/A N/A	t laden g	jas streai	m.	12. Out	tlet			
Pal	a. b. c. d. e. f.	Carbon Monoxide (CO)  Lead (Pb)  Hazardous Air Pollutant (HAP) (3)  Nitrogen Oxides (NO <sub>X</sub> )  Mercury (Hg)  Particulate Matter (PM)	ns of the pollutant  10. Uni  N/A  N/A  specify): N/A  N/A  N/A  PM <sub>10</sub> ) N/A	t laden g	jas streai	m.	12. Out	tlet			
Pal	a. b. c. d. e. f.	Carbon Monoxide (CO)  Lead (Pb)  Hazardous Air Pollutant (HAP) (3)  Nitrogen Oxides (NO <sub>X</sub> )  Mercury (Hg)  Particulate Matter (PM)  Particulate Matter less than 10µm (	ns of the pollutant  10. Uni  N/A  N/A  specify): N/A  N/A  N/A  PM <sub>10</sub> ) N/A	t laden g	jas streai	m.	12. Out	tlet			
Pal	a. b. c. d. e. f. g. h.	Carbon Monoxide (CO)  Lead (Pb)  Hazardous Air Pollutant (HAP) (State of the content of the con	ns of the pollutant  10. Uni  N/A  N/A  Specify): N/A  N/A  PM <sub>10</sub> ) N/A  (PM <sub>2.5</sub> ) N/A	t laden g	jas streai	m.	12. Out	tlet			

<sup>\*</sup> Tank TK-SH-1 and TK-SH-2 have a combined limit of 0.5 ton/yr of both H<sub>2</sub>S and Total Reduced Sulfur (See Appendix C Table C.63).

PART [	D: Monitoring, Record Keeping, 8	R Testing Procedu	res	_
Part D identifies any existing or prop in the permit.				ed to be included
14. Item(s) Monitored:	N/A			
15. Monitoring Frequency:	N/A			
16. Item(s) Recorded:	N/A			
17. Record Keeping Frequency:	N/A			
18. Pollutant(s) Tested:	N/A			
19. Test Method(s):	N/A			
20. Testing Frequency:	N/A			
Part E verifies that a complete Preve	PART E: Preventive Mainten entive Maintenance Plan (PMP) has		the control de	evice. if
applicable. Use this table as a chec				
21. Do you have a Preventive Mai	ntenance Plan (PMP)?			
☐ No PMP is needed.	Yes – the following items are identi	fied on the PMP:		
A. Identification of the indi	vidual(s) responsible for inspecting, maintain	ning and repairing emiss	sion control device	es.
B. Description of the items	or conditions that will be inspected.			
C. Schedule for inspection	of items or conditions described above.			
	fication of the replacement parts that will be	e maintained in inventor	/ for quick replace	ment.
Don't Foresides evaluation to determ	PART F: Determination of Inte		into aval to the	_
Part F provides explanation to determ			integral to the	process.
22. Has IDEM already made an int  If "Yes", provide the following:	egral control determination for t	his device?	⊠ No	Yes
Permit Number:	Issuance Date:	Determination:	☐ Integral	□ Not Integral
23. Is this device integral to the pull "Yes", provide the reason(s) w		⊠ No □ Y	'es	